BRUHAT BANGALORE MAHANAGARA PALIKE

Asst.Executive Engineer,
Shettyhalli Sub Division,

Name of Work:- Construction of General Public Toilet in Ward NO.13 Mallasandra Shettyhalli Sub Division

Est Cost:27.50 Lakhs

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Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work:Construction of General Public Toilet in Ward NO.13 Mallasandra Shettyhalli Sub Division

Est .Cost Rs.27.50 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	**Earth work excavation for foundation of building** water sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of colds complete as per specifications.(**Page No. 6 / Item No. 2.4 of PWD SR 2018-19**)								
	For Toilet Building								
	Column footing		8	1.60	1.60	1.50	30.72		
	L/wall		2	10.00	0.80	0.90	14.40		
	S/wall		4	5.90	0.80	0.90	16.99		
	wall b/n toilet Rooms		9	1.50	0.75	0.75	7.59		
			2	3.00	0.75	0.90	4.05		
			1	5.60	0.75	0.90	3.78		
	Sump tank		1	3.00	3.00	2.00	18.00		
	For Water Supply Pipeline		1	20.00	0.75	0.90	13.50		
	For Sanitory Connection		1	20.00	0.75	0.90	13.50		
	Deduct For Column		-9	0.20	0.45	1.00	-0.81		
		Cum					**121.73**	**484.92**	**59027.25**
	Basic Rate	449.00							
	Area Weightage 8%	35.92							
	Total	**484.92**							
2	KSRB 4-1.2 : Providing and laying in position plain **cement concrete of mix 1:3:6 with OPC** cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS **(P.No. 12/I.No. 4.2 of PWD 2016-17)**								
	For Toilet Building								
	Column footing		8	1.60	1.60	0.15	3.07		
	L/wall		2	10.00	0.75	0.15	2.25		
	S/wall		4	5.90	0.75	0.10	1.77		
	wall b/n toilet Rooms		9	1.50	0.75	0.10	1.01		
			2	3.00	0.75	0.10	0.45		
			1	5.60	0.75	0.15	0.63		
	For Floor		1	9.70	5.60	0.10	5.43		
	Sump tank		1	3.00	3.00	0.15	1.35		
	For Water Supply Pipeline		1	20.00	0.75	0.10	1.50		
	For Sanitory Connection		1	20.00	0.75	0.10	1.50		
	Deduct For Column		-6	0.20	0.45	0.15	-0.08		
		Cum					**18.89**	**5698.60**	**107620.84**
	Basic Rate	5194.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5276.48**							
	Area Weightage 8%	422.12							
	Total	**5698.60**							

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Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
Providing and constructing **granite /trap/ baslat size stone masonry in foundation** with cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications (**Page No. 25 / Item No. 5.6, PWD SR 2018-19)**								
Below Ground Level								
1st Step								
L/wall		2	10.00	0.75	0.40	6.00		
S/wall		4	5.90	0.75	0.40	7.08		
wall b/n toilet Rooms		9	1.50	0.75	0.40	4.05		
		2	3.00	0.75	0.40	1.80		
		1	5.60	0.75	0.40	1.68		
2nd step								
L/wall		2	10.00	0.60	0.40	4.80		
S/wall		4	5.90	0.60	0.40	5.66		
wall b/n toilet Rooms		9	1.50	0.60	0.40	3.24		
		2	3.00	0.60	0.40	1.44		
		1	5.60	0.60	0.40	1.34		
Above ground level								
L/wall		2	10.00	0.45	0.40	3.60		
S/wall		4	5.90	0.45	0.40	4.25		
wall b/n toilet Rooms		9	1.50	0.45	0.40	2.43		
		2	3.00	0.45	0.40	1.08		
		1	5.60	0.45	0.40	1.01		
Deduct For Column		-8	0.20	0.45	1.40	-1.01		
	Cum					**48.46**	**4983.92**	**241501.05**
Basic Rate	4596.00							
Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-245.32	Note:- -(0.2*1*1=0.2 Cum/Sqm) (0.2*250*490.63/100)=245.32						
Add Cement cost as per Issue rate	264.06	Note:- (0.2*250*264.06/50)=264.06						
Sub Total	4614.75							
Area Weightage 8%	369.18							
Total	**4983.92**							
Providing ruled pointing to coursed stone masonry with cement mortar 1:3 20mm deep, after raking joints to depth of 20mm necely lining, including cost of materials, labour, curing complete as per specifications (**Page No. 115 / Item No. 15.3, PWD SR 2018-19)**								
Above ground level								
L/wall		2	10.00		0.40	8.00		
S/wall		4	5.90		0.40	9.44		
wall b/n toilet Rooms		9	1.50		0.40	5.40		
		2	3.00		0.40	2.40		
		1	5.60		0.40	2.24		
Deduct For Column		-8	0.20		0.40	-0.64		
	Sqm					**26.84**	**157.49**	**4227.03**
Basic Rate	142.00							
Deduct Cement cost as per SR - 18-19	-50.04	Note:- morter 0.02*1*1=0.02 Cum/Sqm, (0.02*510*490.63/100)= 50.04						
Add Cement cost as per Issue rate	53.87	Note:- (0.02*510*264.06/50)= 48.48						
Sub Total	**145.82**							
Area Weightage 8%	11.67							

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**157.49**							
5	**Filling avaialble excavated earth** (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms in depth compacting each deposited layers by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specification (Page No. 7 / Item No. 2.10 / PWD SR 2018-19)								
		Cum		**Qty as per lt 1**			**121.73**	**217.08**	**26424.23**
	Basic Rate	201.00							
	Area Weightage 8%	16.08							
	Total	**217.08**							
6	KSRB 4.2.7: Providing and laying in position reinforced cement concrete cum of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6 Specification No. KBS 4.1, 4.6. (Page No. 14, Item No. 4.12, PWD SR 2018-19)								
	Below Ground Level								
	For Column footing		8	1.60	1.60	0.45	9.22		
	Column		8	0.45	0.20	0.90	0.65		
	Above ground level								
	Column		8	0.45	0.20	3.00	2.16		
	Plinth beam								
	L/wall		2	10.00	0.30	0.30	1.80		
	S/wall		4	5.90	0.30	0.30	2.12		
	wall b/n toilet Rooms		9	1.50	0.30	0.30	1.22		
			2	3.00	0.30	0.30	0.54		
			1	5.60	0.30	0.30	0.50		
	Lintel Beam								
	L/wall		2	10.00	0.15	0.15	0.45		
	S/wall		4	5.90	0.15	0.15	0.53		
	wall b/n toilet Rooms		9	1.50	0.15	0.15	0.30		
			2	3.00	0.15	0.15	0.14		
			1	5.60	0.15	0.15	0.13		
	Roof Beam								
	L/wall		2	10.00	0.15	0.30	0.90		
	S/wall		4	5.90	0.15	0.30	1.06		
	wall b/n toilet Rooms		9	1.50	0.15	0.30	0.61		
			2	3.00	0.15	0.30	0.27		
			1	5.60	0.15	0.30	0.25		
			1	10.00	0.23	0.30	0.69		
	Roof Slab		1	10.00	5.90	0.15	8.85		
	For Sump								
	Bottom Raft		1	3.00	3.00	0.20	1.80		
	For Wall		2	3.00	0.20	1.80	2.16		
			2	2.60	0.20	1.80	1.87		
	For Sump Roof Slab		1	3.00	3.00	0.20	1.80		
		Cum					**40.02**	**6666.26**	**266758.86**
	Basic Rate	6045.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-1668.14	Note:- (340*490.63/100)=1668.14						

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No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Add Cement cost as per Issue rate	1795.61	Note:- (340*264.06/50)=1795.61						
	Sub Total	**6172.47**							
	Area Weightage 8%	493.80							
	Total	**6666.26**							
7	KSRB 4.2.10 : **Providing and laying in position reinforced cement concrete of design mix M20** with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for **plain chajja of 7.5 cms. average thickness**, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (page No. 15, Item No. 4.19, PWD SR 2018-19)								
	Chejja GF V1		1	10.00	0.60		6.00		
		Sqm					**6.00**	**484.92**	**2909.50**
	Basic Rate	440.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-117.75	Note:- (24*490.63/100)=1668.14						
	Add Cement cost as per Issue rate	126.75	Note:- (24*264.06/50)=1795.61						
	Sub Total	**449.00**							
	Area Weightage 8%	35.92							
	Total	**484.92**							
8	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No. 18/ Item No. 4.46.2, PWD SR 2018-19)								
	Consider 100 kg per cum of concrete			40.02	100.00		4001.63		
		Tonne					**4.00**	**76643.28**	**306697.67**
	Basic Rate	70966.00							
	Area Weightage 8%	5677.28							
	Total	**76643.28**							
9	**Providing and removing centering shuttering** strutting propping etc., and removal of form work for **columns,** pillars, abutments, post and struts square/ rectangular/ polygon in plan including cost of all materials labour complete as per specification (Page No. 16 / Item No. 4.32, PWD SR 2018-19)								
	Column Footings		8	6.40		0.45	23.04		
	Column		8	1.30		4.80	49.92		
		Sqm					**72.96**	**492.48**	**35931.34**
	Basic Rate	456.00							
	Area Weightage 8%	36.48							
	Total	**492.48**							
10	**Providing and removing centering shuttering** strutting propping etc., and removal of form work for sides and soffits of **beams beam houchings** cantilever girders bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specification (Page No. 17/ Item No. 4.34, PWD SR 2018-19)								
	Plinth beam								
	L/wall		4	10.00		0.30	12.00		
	S/wall		8	5.90		0.30	14.16		
	wall b/n toilet Rooms		18	1.50		0.30	8.10		

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
			4	3.00		0.30	3.60		
			2	5.60		0.30	3.36		
	Lintel Beam								
	L/wall		4	10.00		0.15	6.00		
	S/wall		8	5.90		0.15	7.08		
	wall b/n toilet Rooms		18	1.50		0.15	4.05		
			4	3.00		0.15	1.80		
			2	5.60		0.15	1.68		
	Roof Beam								
	L/wall		4	10.00		0.30	12.00		
	S/wall		8	5.90		0.30	14.16		
	wall b/n toilet Rooms		18	1.50		0.30	8.10		
			4	3.00		0.30	3.60		
			2	5.60		0.30	3.36		
			2	10.00		0.30	6.00		
		Sqm					**109.05**	**315.36**	**34390.01**
	Basic Rate	292.00							
	Area Weightage 8%	23.36							
	Total	**315.36**							
11	**Providing and removing centering shuttering** strutting propping etc., for **chejjas**, corbels etc., including edges including cost of all materials, labour complete as per specifications **(Page No. 17 / Item No. 4.37, PWD SR 2018-19)**								
	Chejja GF V1		1	10.00	0.60		6.00		
		Sqm					**6.00**	**348.84**	**2093.04**
	Basic Rate	323.00							
	Area Weightage 8%	25.84							
	Total	**348.84**							
12	**Providing and removing centering, shuttering**, strutting, propping etc., and removal of form work for flat surface such as suspended floors, **roofs,**landing, balconies and likes thickness upto 200mm including cost of materials, labour complete as per specification (**Page No. 16 / Item No. 4.30, PWD SR 2018-19)**								
	Roof Slab		1	9.70	5.60		54.32		
			2	31.80		0.15	9.54		
	Sump tank (Roof Slab		1	2.70	2.70		7.29		
		Sqm					**71.15**	**475.20**	**33810.48**
	Basic Rate	440.00							
	Area Weightage 8%	35.20							
	Total	**475.20**							
13	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/rrim2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hirecharges of machineries etc., complete as per specifications. KBS No.54,17400x150x200mm **(Page No. 27 / Item No. 5.26.2, PWD SR 2018-19)**								
	For Toilet Building								
	L/wall		2	10.00		3.00	60.00		
	S/wall		4	5.90		3.00	70.80		
	wall b/n toilet Rooms		9	1.50		3.00	40.50		
			2	3.00		3.00	18.00		
			1	5.60		3.00	16.80		
	For Parapet Wall		2	10.00		0.90	18.00		
			2	5.90		0.90	10.62		

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Deductions								
	Main Door D		-2	1.20		2.10	-5.04		
	D1		-10	0.90		2.10	-18.90		
	Ventilator V		-10	0.75		0.60	-4.50		
	Deduct For Column		-8	0.45		3.00	-10.80		
	Lintel Beam		-1	69.00		0.15	-10.35		
	Roof Beam		-1	69.00		0.15	-10.35		
		Sqm					**174.78**	**1000.90**	**174937.30**
	Basic Rate	924.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-36.11	Note:- (7.36*490.63/100)=36.11						
	Add Cement cost as per Issue rate	38.87	Note:- (7.36*264.06/50)=38.87						
	Sub Total	926.76							
	Area Weightage 8%	74.14							
	Total	**1000.90**							
14	**Providing 18mm thick cement plaster in single coat with cement mortar 1:3**, to brick masonry including rounding off corners wherever required smooth rendering: providing and removing scaffolding, including cost of materials labour curing complete as per specifications**(P.No. 112, I.No. 15.15 of PWD SR 2018-19)**								
	In side plastering								
	L/wall		2	10.00		3.00	60.00		
	S/wall		6	5.90		3.00	106.20		
	wall b/n toilet Rooms		16	1.50		3.00	72.00		
			4	3.00		3.00	36.00		
			2	5.60		3.00	33.60		
	Deductions								
	Main Door D	0.5	-2	1.20		2.10	-2.52		
	D1	0.5	-10	0.90		2.10	-9.45		
	Ventilator V	0.5	-10	0.75		0.60	-2.25		
		Sqm					**293.58**	**301.80**	**88601.54**
	Basic Rate	276.00							
	Deduct Cement cost as per SR - 18-19	-45.04	Note:- morter 0.018*1*1=0.018 Cum/Sqm, (0.018*510*490.63/100)= 45.04						
	Add Cement cost as per Issue rate	48.48	Note:- (0.018*510*264.06/50)= 48.48						
	Sub Total	**279.44**							
	Area Weightage 8%	22.36							
	Total	**301.80**							
15	**Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling** incluidng rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials, labour curing complete as per specification . **(Page No. 116, Item No. 15.21 of PWD SR 2018-19)**								
	Ceiling		1	10.00	5.900		59.00		
		Sqm					**59.00**	**256.28**	**15120.40**
	Basic Rate	235.00							
	Deduct Cement cost as per SR - 18-19	-30.03	Note:- morter 0.012*1*1=0.012 Cum/Sqm, (0.012*510*490.63/100)=30.03						
	Add Cement cost as per Issue rate	32.32	Note:- (0.012*510*264.06/50)=32.32						

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Sub Total	**237.29**							
	Area Weightage 8%	18.98							
	Total	**256.28**							
6	**Providing 20mm thick cement plaster in single coat** with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications **(Page No116, Item No.15.18, PWD SR 2018-19)**								
	OutSide Plastering								
	L/wall		2	10.00		3.00	60.00		
	S/wall		2	5.90		3.00	35.40		
	Deductions								
	Main Door D	0.5	-2	1.20		2.10	-2.52		
	D1	0.5	-10	0.90		2.10	-9.45		
	Ventilator V	0.5	-10	0.75		0.60	-2.25		
		Sqm					**81.18**	**316.25**	**25673.17**
	Basic Rate	289.00							
	Deduct Cement cost as per SR - 18-19	-50.04	Note:- morter 0.02*1*1=0.02 Cum/Sqm, (0.02*510*490.63/100)=50.04,						
	Add Cement cost as per Issue rate	53.87	Note:- (0.012*510*264.06/50)=53.87						
	Sub Total	**292.82**							
	Area Weightage 8%	23.43							
	Total	**316.25**							
17	**Providing lime rendering for plastering** to wall and ceiling, including cost of materials, labour, curing complete as per specifications, **(Page No. 117, Item No. 15.33, PWD SR 2018-19)**								
			(Qty vide Item no.24 & 25)				352.58		
		Sqm					**352.58**	**34.56**	**12185.16**
	Basic Rate	32.00							
	Area Weightage 8%	2.56							
		34.56							
18	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. (P. No. 119, I.No. 15.51.2 of SR 2018-19).								
			Qty vide item No.25				293.58		
		Sqm					**293.58**	**97.20**	**28535.98**
	Basic Rate	90.00							
	Area Weightage 8%	7.20							
	Total	**97.20**							
19	KSRB 15-15.5 : Extra for providing and applying every subsequent coat of painting with plastic emulsion paint of approved brand and shade for Item no.15-15.1 and 15-15.3 cost of materials, labour, complete as per specifications. (Page No120, Item No.15.52.3, PWD SR 2018-19)								
			Qty vide item No.25				293.58		
		Sqm					**293.58**	**39.96**	**11731.46**
	Basic Rate	37.00							
	Area Weightage 8%	2.96							
	Total	**39.96**							

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered materials, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications-do with primer **(Page No. 120 / Item No. 15.53.2, SR 2018-19)**								
			Qty vide item No.26				81.18		
		Sqm					**81.18**	**110.16**	**8942.79**
	Basic Rate	102.00							
	Area Weightage 8%	8.16							
	Total	**110.16**							
1	KSRB 15-16.3 : Extra for providing and applying every subsequent coat of waterproofing cement paint of approved brand and shade for Item no.15-16.1 cost of materials, labour, complete as per specifications. **(Page No.120, Item No.15.53.3 PWD SR 2018-19)**								
			Qty vide item No.26				81.18		
		Sqm					**81.18**	**36.72**	**2980.93**
	Basic Rate	34.00							
	Area Weightage 8%	2.72							
	Total	**36.72**							
2	**Providing Honne wood frames of doors, windows**, clerestory windows, ventilators and other frames wrought, framed of assembled including making plaster grooves (excluding cost of materials, labour, HOM of machineries complete as per specifications (P. No. 53 / I. No. 9.11 of PWD SR 2018-19)								
	Door D		2	6.60	0.125	0.125	0.21		
			1	6.00	0.125	0.125	0.09		
		Cum					**0.30**	**94612.32**	**28383.70**
	Basic Rate	87604.00							
	Area Weightage 8%	7008.32							
	Total	**94612.32**							
3	**Providing and fixing in position fully panelled Honne wood shutters for doors**, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour,HOM of machineries completed as per specification (excluding cost of fixtures) (Page No. 53, Item No. 9.15, PWD SR 2018-19)								
	Door D		2	1.20		2.10	5.04		
			1	0.90		2.10	1.89		
		Sqm					**6.93**	**5099.76**	**35341.34**
	Basic Rate	4722.00							
	Area Weightage 8%	377.76							
	Total	**5099.76**							
24	Providing and fixing PVC Hollow Door Frame of the size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitre cut at two corners and joined with 2 No.s of 150mm long brackets of 15 x 15mm M.S Square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 guage, EPDM rubber gasket weather seal to be provided through out the frame. The door screws through the frame by using PVC fasteners. A minimum of 4 Nos. of screws to be provided for each vertical member & minimum 2 Nos. for horizontal member. (P.No.62, I. No. 9.92, PWD SR 2018-19)								
	D1		10	5.70			57.00		
		Mtr					**57.00**	**388.80**	**22161.60**
	Basic Rate	360.00							
	Area Weightage 8%	28.80							
	Total	**388.80**							

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
5	"SOLID PANEL PRELAM PVC DOOR SHUTTER" Providing and fixing 30MM thick factory made rigid foam with both side Prelam Panelled Door Shutters made from M.S. tube of 19 x 19mm, 19 gauge for styles and 15 x 15mm for top & bottom rails, covered with heat moulded Prelaminated PVC 'C' Channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide Prelaminated PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet Prelaminated on either side fitted in the M.S Frams, Sealed to the styles & rails with PVC Designer beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75mm. Aluminium hinges. (P.No.61, I. No. 9.85.1, PWD SR 2018-19)								
	D1		10	0.75		2.10	15.75		
		Sqm					**15.75**	**4045.68**	**63719.46**
	Basic Rate	3746.00							
	Area Weightage 8%	299.68							
	Total	**4045.68**							
6	**Providing and fixing M.S. grill work for windows and ventilator** weighing 21kg/Sqm using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures labour and HOM of machinery specifications(P.No. 34, I.No. 7.9 of PWD SR 2018-19)								
	V1		10	0.75		0.60	4.50		
							4.50		
	Consider 21 kg per one sqm	**Sqm**		21	x	4.50	**94.50**	**102.60**	**9695.70**
	Basic Rate	95.00							
	Area Weightage 8%	7.60							
	Total	**102.60**							
27	Providing and fixing in position collapsible steel shutters Sqm with single or double leaf with vertical channel 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size, with top and bottom rails of T iron sections of 40x40x6 mm with 38mm dia steel pulleys complete with bolt and nuts, locking arrangements, stoppers, handles on both sides with 7.5cms openings at 10 cms. c to c applying a priming coat of red lead paint, cost of materials, labour, HOM of machinery complete as per specifications, size of gate 2.4mx1.4m Specification No. KBS 7.7 / 7.12 (Page No. 33, Item No. 7.1, PWD SR 2018-19)								
			1	4.50		3.00	13.50		
		Sqm					**13.50**	**5626.80**	**75961.80**
	Basic Rate	5210.00							
	Area Weightage 8%	416.80							
	Total	**5626.80**							
28	KSRB 7.8: Providing and fixing in position in cement concrete 1:3:6 steel Sqm glazed windows and ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of25x33x3mm, weighing 1.419 kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28kg/m all duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows, not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenonned and revetted into the frames electrically. AH the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery complete as per specifications. (I.tm No.7.8, P.No.34, SR:2018-19)								
	V1		10	0.75	0.60		4.50		
		Sqm					**4.50**	**3594.24**	**16174.08**
	Basic Rate	3328.00							
	Area Weightage 8%	266.24							
	Total	**3594.24**							

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Applying priming coat over new wood surface and/ or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specificatios **(P.No. 121, I.No. 15.59 of SR 2018-19).**								
		Sqm							
	D		2	1.20		2.10	5.04		
			1	0.90		2.10	1.89		
	Basic Rate	50.00					**6.93**	**54.00**	**374.22**
	Area Weightage 8%	4.00							
	Total	**54.00**							
0	**Providing and applying painting two coats (excluding priming coat)** on new wood surface and/ or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications **(P.No. 121, I.No. 15.60.1 of SR 2018-19).**								
				Qty vide item No.49			6.93		
		Sqm					**6.93**	**104.76**	**725.99**
	Basic Rate	97.00							
	Area Weightage 8%	7.76							
	Total	**104.76**							
31	KSRB 15-17.8 : Extra over Item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. (Page No.121, Item No.15.60.2, PWD SR 2018-19)								
				Qty vide item No.49			6.93		
		Sqm					**6.93**	**59.40**	**411.64**
	Basic Rate	55.00							
	Area Weightage 8%	4.40							
	Total	**59.40**							
32	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 900mm (P.No.110, I.No.14.47.2 of PWD SR 2018-19)								
	Ground Floor								
	Waiting room (Gents)		1	2.85	2.40		6.84		
			1	4.25	2.75		11.69		
			1	5.60	2.60		14.56		
	Waiting room (Ladies)		1	2.70	1.70		4.59		
	Room		1	19.40		0.10	1.94		
	Skerting		1	15.50		0.10	1.55		
							41.17	**2603.72**	**107188.53**
		Sqm							
	Basic Rate	2408.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-37.29	Note:- (0.02*1*1=0.02 cum/Sqm) (0.02*380*490.63/100)=37.29						
	Add Cement cost as per Issue rate	40.14	Note:- (0.02*380*264.06/50)=40.14						
	Sub Total	**2410.85**							
	Area Weightage 8%	192.87							
	Total	**2603.72**							

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Providing and fixing Ceramic tiles of size 400x400mm for flooring, threads, steps and landing, laid on a bed of 20mm thick cement mortar 1:3 mix flush pointing with white cement mixed with matching colour pigment including curing, cleaning etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for equipment, , etc., complete as per specification (P.No.112, I.No. 14.63 of PWD SR 2018-19).								
	For Toilet Rooms								
	Flooring								
	Gents Toilet Rooms		10	1.20	1.00		12.00		
	Ladies Toilet Rooms		5	3.65		1.80	32.85		
			5	3.65		1.80	32.85		
		Sqm							
	Basic Rate	1132.00					77.70	1226.69	95313.81
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-50.04	Note:- (0.02*1*1=0.02Cum/Sqm) (0.02*510*490.63/100)=50.04						
	Add Cement cost as per Issue rate	53.87	Note:- (0.02*510*264.06/50)=53.87						
	Sub Total	1135.82							
	Area Weightage 8%	90.87							
	Total	1226.69							
34	**Providing and laying integral cement based water proofing treatment** including preparation of surface as required for treatment of roofs, balconies terraces etc., consisting of following applications a) applying and grouting a slurry coat of neat cement using 2.75 kg per sqm of cement admixed with proprietary water proofing compound confirming to IS 2645 over the RCC slab after cleaning the surface before treatment b)laying cement concrete using broken brick bats 25mm to 100mmsize with 50% of cement mortar 1:5 admix with propreatory water proofing compound confirming IS 2645 over 20mm thick layer of cement mortar 1:5 admix with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs c)after two days of proper curing applying a second coat of cement slurry admix with preprietoray water proofing compound d) finishing the surface with 20mm joint less cement mortar of mix 1:4 admix with preprietary water proofing compond wall finally finishing the surface with travel and neat cement slurry and making of 300 x 300 mm square e the whole terrace so finished shall be flooded with water for a minimum period of two weeks curing and final test including cost of materials labour complete as per specifications **(Page No.68, Item No. 10.2 of PWD SR 2018-19)**								
			1	10.00	5.90		59.00		
		Sqm					59.00	1099.52	64871.42
	Basic Rate	1006.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-157.98	Cement Slurry 2.75*490.63/100=13.49 CC with 50% CM 1:5 average thick 75mm,0.075*310*490.63/100=114.07,20mm thick CM 1:5,0.020*310*490.63/100=30.42						
	Add Cement cost as per Issue rate	170.05	Cement Slurry 2.75*264.06/50=14.52 CC with 50% CM 1:5 average thick 75mm,0.075*310*264.06/50=122.78,20mm thick CM 1:5,0.020*310*264.06/50=32.74						
	Sub Total	1018.07							
	Area Weightage 8%	81.45							
	Total	1099.52							
	Plumbing Work								
35	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - **25mm nominal OD pipes** (P.No.96, I.No. 13.86.3 of PWD SR 2016-17)								

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
		mtr	1	60.00			60.00		
							60.00	**183.60**	**11016.00**
	Basic Rate	170.00							
	Area Weightage 8%	13.60							
	Total	**183.60**							
36	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - **20mm nominal OD pipes (P.No.98, I.No. 13.85.2 of PWD SR 2018-19)**								
		mtr	1	30.00			30.00		
							30.00	**169.56**	**5086.80**
	Basic Rate	157.00							
	Area Weightage 8%	12.56							
	Total	**169.56**							
	Sanitory connection								
37	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with **200mm outer dia(P.No.77, I.No. 11.56.5 of PWD SR 2018-19)**								
		m	1	20.00			20.00		
							20.00	**1706.40**	**34128.00**
	Basic Rate	1580.00							
	Area Weightage 8%	126.40							
	Total	**1706.40**							
38	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with **160mm outer dia(P.No.77, I.No. 11.56.4 of PWD SR 2018-19)**								
		mtr	1	42.00			42.00		
							42.00	**1352.16**	**56790.72**
	Basic Rate	1252.00							
	Area Weightage 8%	100.16							
	Total	**1352.16**							
39	KSRB13-6.2-1 : Providing and fixing in position brass stop cock of approved quality **15mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No.93, I.No.13.26 of PWD SR 2018-19)								
		Each	16				16.00		
							16.00	**152.28**	**2436.48**
	Basic Rate	141.00							
	Area Weightage 8%	11.28							
	Total	**152.28**							
40	**providing and fixing in position brass gate valve** with C.I. Wheel of approved quality (Screwed end) 20mm nominal bore including cost of all materials labour and HOM of Equipments with all lead complete as per specificatins**(P.No.93, I.No. 13.33 of PWD SR 2018-19)**								
		Each	5				5.00		
							5.00	**362.88**	**1814.40**
	Basic Rate	336.00							
	Area Weightage 8%	26.88							
	Total	**362.88**							

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. - **for 32mm dia (P.No.97, I.No. 13.81.1 of PWD SR 2018-19)**								
			10				10.00		
		Each					**10.00**	**129.60**	**1296.00**
	Basic Rate	120.00							
	Area Weightage 8%	9.60							
	Total	**129.60**							
42	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No.76 / I.No.11.50.3, of PWD SR 2018-19)								
			4				4.00		
		Nos					**4.00**	**5912.75**	**23651.01**
	Basic Rate	5300.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-2286.90	Non Modular Brick cm 1:5: 60*490.63/100=294.37 M15 20mm down Size,240*490.63/100=1177.51, M5 40mm down Size,160*490.63/100=785.00 12mm thick plastering cm 1:3,0.012*510*490.63/100=30.02						
	Add Cement cost as per Issue rate	2461.67	Non Modular Brick cm 1:5: 60*264.06/50=316.87, M15 20mm down Size,240*264.06/50=1267.48, M5 40mm down Size,160*264.06/50=845.00, 12mm thick plastering cm 1:3, 0.012*510*264.06/50=32.32						
	Sub Total	**5474.77**							
	Area Weightage 8%	437.98							
	Total	**5912.75**							
43	Providing and fixing on wall surface 4.0kg?Sq.cm **H.D.P.E. rain down water pipes 90mm outer dia approved** make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as per specification (Page No. 49/ Item No. 8.18, PWD SR 2018-19)								
			4	3.00			12.00		
		m					**12.00**	**422.28**	**5067.36**
	Basic Rate	391.00							
	Area Weightage 8%	31.28							
	Total	**422.28**							
44	KSRB 11-5 : Providing and fixing white vitreous china clay, **water closet European type (Pedestal type, P-trap) with black solid plastic seat** and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 **(Page no.79 Item no.12.5 ,PWD SR 2018-19)**								
			10				10.00		

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	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
		Pan					10.00	5352.48	53524.80
	Basic Rate	4956.00							
	Area Weightage 8%	396.48							
	Total	5352.48							
45	Providing and fixing white vitreous china clay flat back **wash basin size 630x450mm with a** single of 15mm C.P. brass pillar taps with C.I. /M.S. brackets 32mm C.P. brass waste of standard pattern, painting of fittings and brackets, cuttings and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications **(P.No. 83, I.No. 12.24 of PWD SR 2018-19)**								
			6				6.00		
		Unit					6.00	3400.92	20405.52
	Basic Rate	3149.00							
	Area Weightage 8%	251.92							
	Total	3400.92							
46	Providing and fixing white vitreaus **china clay, flat back, lipped front urinal basin of 430x260x350mm** with 5 litre PVC automatic flushing cistren, C.I./M.S bracket, standard flush pipe and c.P. brass spreaders with brass union and G.I.Clamp Complete painting of fitting and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specification **(Page No. 80, item No. 12.7,PWD SR 2018-19)**								
			6				6.00		
		Unit					6.00	3317.76	19906.56
	Basic Rate	3072.00							
	Area Weightage 8%	245.76							
	Total	3317.76							
47	Providing and fixing 7.5 cms to 15.00 cms dia NP grating **100 mm dia. (P.No.90, I.No. 12.111 of PWD SR 2018-19)**								
			15				15.00		
		Each					15.00	162.00	2430.00
	Basic Rate	150.00							
	Area Weightage 8%	12.00							
	Total	162.00							
48	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No.90, I.No. 12.113.1, of PWD SR 2018-19)								
			10				10.00		
		Each					10.00	270.00	2700.00
	Basic Rate	250.00							
	Area Weightage 8%	20.00							
	Total	270.00							
49	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. **(For 1000 litre capacity)** Specification No.KBS 13.22 (Page No. 96, Item No. 13.78, PWD SR 2018-19)								
			2				2.00		
		Nos					2.00	7374.24	14748.48
	Basic Rate	6828.00							
	Area Weightage 8%	546.24							
	Total	7374.24							

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Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
Rectangalur shape mirror of size **1500x450mm** with plastic moulded frame Page XXVI, Sl .No.680)								
		3				3.00		
	Nos					3.00	1006.78	3020.33
Basic Rate	932.20							
Area Weightage 8%	74.58							
Total	1006.78							
Providing electrical Charges								
		1				1.00		
	L/S					1.00	100000.00	100000.00
							Total Construction Cost	2368445.74
							GST Charges 12%	284213.49
							KRIDL Charges 4%	94737.83
							Sub Total	2747397.06
							Miscellaneous and other unforseen charges	2602.94
							Grand Total Rs	2750000.00
Rupees Twenty Seven Lakh(s) Fifty Thousand Only								

rtificate:

This Work Comes Within BBMP Limits.

Certified that personaly Inspected the Work Spot.

Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19

Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way

This work is not include in any other program of work.

Asst Engineer
Ward No-13

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs 27,50,000/-
(Rupees Twenty Seven Lakhs Fifty Thousand only)
Under the Head of Account P-3294
14th Finance.
Registered as EE/DD/AS 235
Subject to conditions contained in Enclosed Memo
No. BBMP/DDelec/AS/235/19-20 Dt. 09/03/20
(DASARAHALLI)

ನಂ. BBMP/DElec/AS/235/19-20 ದಿನಾಂಕ 09/03/20
ರೂ. 27,50,000/- (Twenty Seven Lakhs Only)
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.

Technically Sanctioned For Rs. 27,50,000/-
Rs. In Words Twenty Seven Lakhs Fifty thousand only
Under P-3294
Job Code No. 013-19-000015
Registered as SE No. 32/19-20/09/3/20 subject to conditions contained in Enclosed Memo No. 32/19-20 Dt. 09/03/2020

AE / JE TA SE(D)

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